STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/562,383
Source: IFWP
Date Processed by STIC: 1/9/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm**> , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):** U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/562,383

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1	Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	Invalid Line Length	The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
3	Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
4	Non-ASCII	The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
5	Variable Length	Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
7	Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
8	Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence. <210> sequence id number <400> sequence id number 000
9	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
10	Invalid <213> Response	Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
11	Use of <220>	~~Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.~~ Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13	Misuse of n/Xaa	"n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid

IFWP

RAW SEQUENCE LISTING DATE: 01/09/2006
PATENT APPLICATION: **US/10/562,383** TIME: 11:39:50

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Output Set: **N:\CRF4\01092006\J562383.raw**

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4 Lewin, Joern; Distler, Juergen
6 <120> TITLE OF INVENTION: Methods and nucleic acids for the analysis of colon cell
7 proliferative disorders
W--> 0 <130> FILE REFERENCE:
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/562,383
C--> 10 <141> CURRENT FILING DATE: 2005-12-23
12 <150> PRIOR APPLICATION NUMBER: PCT/US04/20336
13 <151> PRIOR FILING DATE: 2004-06-23
15 <150> PRIOR APPLICATION NUMBER: US 10/679,062
16 <151> PRIOR FILING DATE: 2003-10-03
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19 <151> PRIOR FILING DATE: 2003-06-23
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24 <150> PRIOR APPLICATION NUMBER: EP 04090175.3
25 <151> PRIOR FILING DATE: 2004-05-06
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33 <211> LENGTH: 2280
34 <212> TYPE: DNA
35 <213> ORGANISM: Homo Sapiens
37 <400> SEQUENCE: 1

pp 7-9

Does Not Comply
Corrected Diskette Needed

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Output Set: **N:\CRF4\01092006\J562383.raw**

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214 tccctggcgg cgttggagcg gtcagtggca gccgggcacg ggcgaccggg tcgcccgggt 600
215 cgccctcaga ccgtgactcc cgaaaaacct tgcgggcggg gcgcgcccgc gccgtctctt 660
216 gccggaaggt gcgagttagt gcgctcgatt gtgggcgggg gcggaaagag gcgcgtttta 720
217 aagtggtaac agatggtttt cttatccaat aggattaaaa aatttgtcct tacccggccg 780
218 accgcggaag tagagtaggc gggcggccaa tggggacatg atgggggggcg gagccgaggc 840
219 ctccgaagcg gaagtgggtt gctgttgagg cggcggcatc tttctcgagg agctctcctg 900
220 ggcggctgaa gaaggagctt cttctccgga gtgcgccggc ggtggcgcct gcggacctaa 960
221 ctagctccag gttaggccga gctttgcggg aaagcagcgg taagtcaggg ccttgcagat 1020
222 gcgaggttta ggcagcttcg cggcctacag aggcctcggc ccgcgcctct tgggggagcc 1080
223 gcgctgcgcg gcttgaccca gccgaggctt tgcagcccgg gacctcgagc cagctctggt 1140
224 cgctcgcact gccgtccgcg cgggcgcacc gagcccggct tggcgcgggc aacagaagtt 1200
225 aggaggtctg cgtctgggtc tcggctcacc ctgggggcgc gcggccatgg ggcttagttc 1260
226 ctagcctagg aagggaaact gagactctgg gaggggcagg aacgccccca aggtcacttg 1320
227 gaaagtcggg caggatgtgc tgttaggggg aagacccggg cagggttttt gttccccgct 1380
228 gacgacgcct cctttgtgtg ttcgcgccgc cgccccgcca tcgtggggcc tgcgagtttg 1440
229 ccggggtgcg tgggccgcgt ggcggggcct tttgtaggtc gggaggatct gagtacgggt 1500
230 gcgggcctga ccgtgggggc gccgaggtcg cagtctaaaa cttagtaggg cctcgatttc 1560
231 cgggcgcgct tccgggcccc ggctggtggt tggtggaacg tgcgactgtg aggcttgcgg 1620
232 cccagccctg caccgctcgg gcccttcacc gctctggcgc gcctatagac aggtgtatga 1680
233 agattctcac gacccgaaac agagttgcta gtaaacaccg cttttccgcc tttgatccat 1740
234 cggggaagag ggaaaaggat agagcttggg caagccgttt tggtagggat ttcagctttt 1800
235 gtctttcact tgtcagttcc catagacgtt cacaaactta ataatcttcg ttctgtttct 1860
236 gcaccaagtt cttgagccag acgtagggtc tcagctctgg agcctggctt agactgtcca 1920
237 actgactggg gagactgagg tccagaaaag tgaagtggtc tgcccaaggt cacatagcca 1980
238 gctatttggc agcagatgag gttaagtcct acctgcaaga tttgggtttt gaattcattg 2040
239 accaggagtt ttgggaccac tgtcaataaa agagacattg aagggaatct tttgttactt 2100
240 tcttggtgat ttgcttttta atggacaagg acatattggg ttcagtttta tctgtgagtt 2160
241 tgaggtgaaa tagaggcatt cgagtagcaa gatatattgc tggcttttgt attgcctgaa 2220
242 tttgagcttc caaaaatctt actttaacac atcgtttatt gatcttttct tgaattacta 2280
243 cctttgtaag gacctttttgt aaacattgtt tttctaatct tcatgaaatc ttaatgccat 2340
244 acgtaaacta tttctttttta tataatgtat gcacatctgt gctttgtaca taaaatgagt 2400
245 aagattt 2407
247 <210> SEQ ID NO: 5
248 <211> LENGTH: 2229
249 <212> TYPE: DNA
250 <213> ORGANISM: Homo Sapiens
252 <400> SEQUENCE: 5
254 tctttcctcg gcgctggctg gtgcgggttg gggtcaggtg gagaagccgc tctttgttaa 60
255 ggtgacagaa cgtgctgggg gtgggggccg gggccagggc cggtgcaact agggggccgc 120
256 tgccctttcc tggacacagt ggaagcttct tccgcatcac caaatttttg tcatcctttc 180
257 tgagggacct gcttccaggc agcacgcaag ttgttgtccc gggtttactc cgcacccctc 240
258 tactgggtga ggaaggagca tcttgaatgg agatgggggt gtccccggtt tatacatctg 300
259 cagagaagag gtgtgccggg ctgcacctct ggaggccgcg gtaactgata ttagagaaga 360
260 ccccggttgc agctgggaag gctcactggc tggaaagagg tgcctcctcc ttccagcaaa 420
261 gggccctgtt tggaagggct gcttctcacc tgtctagtgg caccacagga cggtcggctt 480
262 ccactcgaat tccccccggac ggtatcatca catagccggg tcctcgcagt gttggtttcc 540
263 caatccgatg actgtcacct cggtgaggac ctgtgctgat ggccggagaa ccctgcgctg 600
264 cgggcgcaca tggccaggtg gcgcctggca ggcgacgtcc gggtgcagga cggcgctctt 660

<210> 674

<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> needs explanation on <2237 line. Give source of genetic material (see item 11 on Error Summary Sheet)

<400> 674

gtatgtagtt gtgtgtt 17

<210> 675
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> same error

<400> 675

tttgagtatt cgtaggaa 18

The above sequences are samples of global errors

FYI

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

10/562,383 8

<210> 1160
<211> 22
<212> DNA
<213> Artificial Sequence

<220> bisulfite treated
<223> nucleic acid for analysis of methylation status of SEQ ID NO: 41
<400> 1160
GAGATTGGAG TTTAATTTTG GA 22

<220> NEVER has a response, it is a "header" only. Move this response to <2237 here

change these letters to lower-case. All nucleotide sequences need to show lower-case letters for the nucleotides

The above is a sample of global errors.

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/09/2006
PATENT APPLICATION: **US/10/562,383** TIME: 11:39:51

Input Set : **N:\DA\PTO.DA.txt**
Output Set: **N:\CRF4\01092006\J562383.raw**

FYI

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:51; N Pos. 2126,2128,2131,2132
Seq#:404; N Pos. 2126,2128,2131,2132
Seq#:405; N Pos. 113,114,117,119
Seq#:520; N Pos. 2126,2128,2131,2132
Seq#:521; N Pos. 113,114,117,119